**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1 -33 (Canceled)

34. (Currently Amended) A method of coupling a spliceable optical fiber for transmission of light in its longitudinal direction to an optical component, the method comprising:

(A) providing the spliceable optical fiber, said spliceable optical fiber comprising:
(a) a core region; and

(b) a microstructured cladding region, said cladding region surrounding said core region and comprising:

(b1) an inner cladding region with inner cladding features arranged in an inner cladding background material with a refractive index [[n1]] $n_1$, said inner cladding features comprising thermally collapsible holes or voids, and

(b2) an outer cladding region with an outer cladding background material with a refractive index [[n2]] $n_2$, wherein the refractive index $n_1$ of the inner cladding background material is larger than the refractive index $n_2$ of the outer cladding background material;

said spliceable optical fiber having at least one end;

(B) collapsing said thermally collapsible holes or voids by heating said least one end of said spliceable optical fiber; and

(C) coupling said collapsed spliceable optical fibre end to the optical component.

35. (Previously Presented) The method according to claim 34, wherein said collapsing of said thermally collapsible holes or voids being gradual and/or abrupt.

36. (Previously Presented) A method according to claim 34, wherein said thermally collapsible holes or voids are wholly or partially collapsed.

37. (Previously Presented) A method according to claim 34, wherein said heating is being adapted so that a guided mode at said at least one end of the spliceable optical fiber is confined by an index profile determined by background materials of the core and the inner cladding.

38. (Previously Presented) A method according to claim 34, wherein said heating is provided by a fusion splicer.

39. (Previously Presented) A method according to claim 34, wherein said coupling comprises fusing of said at least one collapsed spliceable optical fiber end and said optical component.

40. (Previously Presented) A method according to claim 34, wherein said optical component is an optical fiber, an optical connector, or a combination thereof.

41. (Previously Presented) The method according to claim 40, wherein said optical fiber is a photonic crystal fiber, or a non-microstructured optical fiber.

42. (Previously Presented) The method according to claim 34, wherein said collapsing of said thermally collapsible holes or voids is controlled by applying less-than-atmospheric pressure to the holes or voids of the optical fiber to facilitate their collapse.

43. (Previously Presented) A spliceable optical fiber for transmission of light in its longitudinal direction, the optical fiber having a cross section perpendicular to the longitudinal direction, said optical fibre comprising

(a) a core region; and

(b) a microstructured cladding region, said cladding region surrounding said core region and comprising:

(b1) an inner cladding region with inner cladding features arranged in an inner cladding background material with a refractive index $n_1$, said inner cladding features comprising thermally collapsible holes or voids, and

(b2) an outer cladding region with an outer cladding background material with a refractive index $n_2$;

wherein said $n_1$ being larger than $n_2$.

44. (Previously Presented) The optical fiber according to claim 43, comprising a collapsed section or an end wherein said inner thermally collapsible holes or voids are collapsed.

45. (Previously Presented) A optical fiber according to claim 43, wherein said inner cladding features have a size of $d_1$ and said outer cladding region comprises outer cladding features of size $d_2$.

46. (Previously Presented) An optical fiber according to claim 45, wherein $d_2$ is larger than $d_1$.

47. (Previously Presented) An optical fiber according to claim 43, wherein $n_1$ and $n_2$ are different by less than 2%, such as less than 1%, such as less than 0.5%.

48. (Previously Presented) An optical fiber according to claim 43, wherein the optical fiber comprises silica-based materials.

49. (Previously Presented) An optical fiber according to claim 43, wherein said core region comprises a material with a refractive index $n_{core}$, and $n_{core}$ is equal to $n_1$.

50. (Previously Presented) An optical fiber according to claim 43, wherein said core region comprises a material with a refractive index $n_{core}$, and $n_{core}$ is larger than $n_1$.

51. (Previously Presented) An optical fiber according to claim 43, wherein said core region comprises material with a refractive index $n_{core}$, and $n_{core}$ is smaller than $n_1$.

52. (Previously Presented) An optical fiber according to claim 43, wherein said core region comprises a material with a refractive index $n_{core}$, and $n_{core}$ is smaller, equal to, or larger than $n_2$.

53. (Previously Presented) An optical fiber according to claim 43, wherein said core region has a diameter smaller than or equal to 3.0 μm.

54. (Previously Presented) An optical fiber according to claim 43, wherein said optical fiber has at least one position, position 1, along its length where a guided mode at a given wavelength, λ, is confined to the core region by the presence of inner cladding features, and λ is in the range from 0.4 μm to 2.0 μm.

55. (Previously Presented) An optical fiber according to claim 43, wherein the core region has a largest dimension, $r_{PCF}$, being in the range of 0.8 μm to 3.0 μm.

56. (Previously Presented) An optical fiber according to claim 43, wherein the inner cladding region has a largest dimension, $r_{solid}$, being in the range of 3.0 μm to 15.0 μm.

57. (Previously Presented) A preform for producing a spliceable optical fiber as defined in claim 43, the preform comprising longitudinal preform elements comprising:

(a) at least one core element (120) comprising a material with refractive index $n_{core}$;

(b) inner cladding elements (121) comprising a tubular element of a material with refractive index $n_1$, said tubular element being adapted to form a collapsible hole or void in the spliceable optical fiber; and

(c) outer cladding elements (122) comprising a material with refractive index $n_2$, and wherein $n_1$ is larger than $n_2$.

58. (Previously Presented) The preform according to claim 57, wherein said tubular element of the inner cladding has an inner dimension $d_{1,preform}$ and said outer cladding elements comprising a tubular element with an inner dimension $d_{2,perform}$, and $d_{2,perform}$, is larger than $d1_{,perform}$.

59. (Previously Presented) A method of producing a spliceable optical fiber as defined in claim 43, the method comprising drawing an optical fiber from a preform for producing a spliceable optical fiber as defined in claim 43, the preform comprising longitudinal preform elements comprising:

(a) at least one core element (120) comprising a material with refractive index $n_{core}$;

(b) inner cladding elements (121) comprising a tubular element of a material with refractive index $n_1$, said tubular element being adapted to form a collapsible hole or void in the spliceable optical fiber; and

(c) outer cladding elements (122) comprising a material with refractive index $n_2$, and wherein $n_1$ is larger than $n_2$.

60. (Previously Presented) A spliceable optical fiber as defined in claim 59 obtainable by the method defined in claim 59.

61. (Previously Presented) A heat-treated spliceable optical fiber comprising a spliceable optical fibre as defined in claim 59, or a spliceable optical fiber obtainable by the method defined in claim 59, prepared by a heat-treatment of at least one end or a section of the spliceable optical fiber.

62. (Previously Presented) An article comprising a spliceable optical fiber for transmission of light in its longitudinal direction, the optical fiber having a cross section perpendicular to the longitudinal direction, said optical fibre comprising:

(a) a core region; and

(b) a microstructured cladding region, said cladding region surrounding said core region and comprising:

(b1) an inner cladding region with inner cladding features arranged in an inner cladding background material with a refractive index $n_1$, said inner cladding features comprising thermally collapsible holes or voids, and

(b2) an outer cladding region with an outer cladding background material with a refractive index $n_2$;

wherein said $n_1$ being larger than $n_2$, wherein said article is a non-linear fiber component, or a dispersion compensating fiber component.